

Message

From: Kay, Robert [rtkay@usgs.gov]
Sent: 12/21/2018 5:10:55 PM
To: Nordine, John [nordine.john@epa.gov]
Subject: Re: [EXTERNAL] Techalloy Octoper Monthly Report

yes, Jack should be able to figure this out with minimal hassle.

On Fri, Dec 21, 2018 at 10:42 AM Nordine, John <nordine.john@epa.gov> wrote:

Bob,

Does my response to Jack clarify what is need for EW-1?

Per our phone conversation today 12-21-2018, clarification of question 4, the last sentence "Techalloy is required to devise some means of assessing pumping volume from EW-1 and EW-2 separately, and current plume capture by EW-1 and EW-2." EPA left the method of assessing the pumping volume and plume capture up to Techalloy. There are different ways to determine pumping volume and plume capture one way would be to conduct a field study like Techalloy has agreed to for EW-2. Or Techalloy could show plume capture for EW-1 by calculation the capture zone width and depth from the hydrologic data that it has (e.g., hydrologic parameter values, variation of hydrogeologic parameters over space and/or time). For more information see A Systematic Approach for Evaluation of Capture Zones at Pump and Treat Systems EPA/600/R_08/003 January 2008. Either approach would be acceptable to EPA. If Techalloy choose an analytical approach, EPA requires a comparison of the results with the real world data from the EW-2 to EW-1. From that comparison EPA may require additional work .

Respectfully,

John Nordine, CPG, LPG

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"The great end of education is to discipline rather than finish the mind; to train it to use of its own powers rather than to fill it with the accumulation of others." Tryon Edwards

"Don't interfere with anything in the Constitution. That must be maintained, for it is the only safeguard of our liberties." Abraham Lincoln

"Many people use statistics in the same manner in which a drunk uses a lamp post; for support, rather than for illumination." Mark Twain

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